

MATERIALS SCIENCE

NE~~X~~US

DATA TECHNOLOGY

an IMS mini-symposium

September 21, 2016 at La Fonda on the Plaza

Scope:

Recent years have witnessed exponential growth in the ability to generate large multidimensional data sets. However, data generation has significantly outpaced the ability to effectively manage, share, analyze, and meaningfully access such data. In this one-day symposium, we will work towards developing a common framework and language that seamlessly bridges the gap between three critical communities:

1. Scientists and engineers that generate materials-related data by experiment and simulation;
2. Those who use and validate existing materials data; and
3. The community that can develop the tools necessary for mining, analyzing, and curating large materials data sets.

We have assembled a team of experts from within LANL and the larger scientific community that will cover these focused topics:

- Data analytics and image recognition
- Machine learning
- Data validation and prediction of new materials (structural, electronic, organic, etc.)

The **Materials Science and Data Technology Nexus mini-symposium on September 21** is aligned with the **CINT 2016 User Meeting, September 19 - 20.**

Conference registration for LANL participants is open in Concur [10613] for the entire event, and is required

Please Note: maximum anticipated expenses in Concur should only include \$100 registration fee and one day \$10 parking (if parking anticipated)

Please go to <https://conferences.newmexicoconsortium.org/> to register for both the CINT User Meeting and MS/DT Nexus. MS/DT Nexus registration fees will cover the mini-symposium talks, meals, and the evening reception on the 21st.

Invited Speakers

Marian Anghel	(CCS-3 - LANL)	Stanislav Borysov	(Nordita)
James Ahrens	(CCS-7 - LANL)	Ian Foster	(Argonne)
Stephan Eidenbenz	(ISTI - LANL)	Matthias Geilhufe	(Nordita)
Bob Hackenberg	(SIGMA - LANL)	Surya Kalidindi	(Georgia Tech)
Abigail Hunter	(XCP-1 - LANL)	Abdullah Mueen	(UNM)
Turab Lookman	(T-4 - LANL)	Ray Osborn	(Argonne)
Philip Schembri	(W-13 - LANL)		
Alexei Skurikhin	(ISR-3 - LANL)		

Organizing Committee

Chair

Alexander Balatsky (IMS - LANL)

Co-chair

Nate Mara (IMS - LANL)

Committee members

Towfiq Ahmed (T-4 - LANL)

Stephan Eidenbenz (ISTI - LANL)

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